1. Know the definitions to the following
   1. Transgenic
   2. Recombinant
   3. Electrophoresis
   4. PCR
   5. DNA fingerprinting
2. Be able to work punnet squares and identify-
   1. Father of genetics
   2. gametes
   3. Possible genotypes, phenotypes
   4. Ratios/percentages of offspring
   5. Multiple alleles/polygenic- blood typing?
   6. Dominant/recessive
   7. Co-dominant/incomplete dominant
3. Be able to read diagrams and provide information on
   1. Electrophoresis- connect relationships, where longest/shortest fragments are located
   2. Genetic manipulation- what is the recombinant, transgenic and cloned parts?
   3. Karyotypes-
   4. Pedigree & inheritance patterns
4. DNA
   1. Codes for \_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Charge of DNA fragments
   3. Shape
   4. Form- sugars, phosphates, weak hydrogen bonds, nitrogen bases,
5. Functions of GE
   1. Crops
   2. Gene therapy
6. DNA terms
   1. Replication
   2. Transcription
   3. Translation
7. When Blood typing a problem for mom?
   1. What determines the types?
   2. Autosomes/sex chromosome
   3. Sex determination
8. .Diseases & symptoms
   1. Dominant/recessive
   2. CF
   3. Huntington’s
   4. PKU